

SCREENING SITE INSPECTION REPORT
FOR
EXPORT PACKAGING
ROCK ISLAND, ILLINOIS
U.S. EPA ID: ILD038409975
SS ID: NONE
TDD: F05-8808-022
PAN: FIL0572SA

DECEMBER 20, 1989

EPA Region 5 Records Ctr.



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ecology and environment, inc.

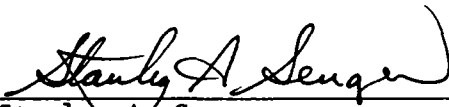
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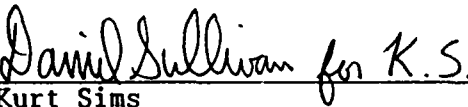


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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Export Packaging site under contract number 68-01-7347.

The site was initially discovered by the Illinois Environmental Protection Agency (IEPA) on November 3, 1981. The site was discovered when an anonymous complaint was filed with the IEPA Division of Land Pollution Control (DLPC) alleging that the company had illegally disposed of a toxic waste solvent (trichloroethylene) on-site (LoPinto 1981). The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Kenneth L. Page of IEPA on April 16, 1986.

FIT prepared an SSI work plan for the Export Packaging site under technical directive document (TDD) F05-8705-091, issued on May 14, 1987. The SSI work plan was approved by U.S. EPA on August 3, 1988. The SSI of the Export Packaging site was conducted on February 20 and 21, 1989, under TDD F05-8808-022, issued on August 11, 1988.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of seven soil samples and three residential well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from SSI work plan preparation, the site representative interview, and a reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

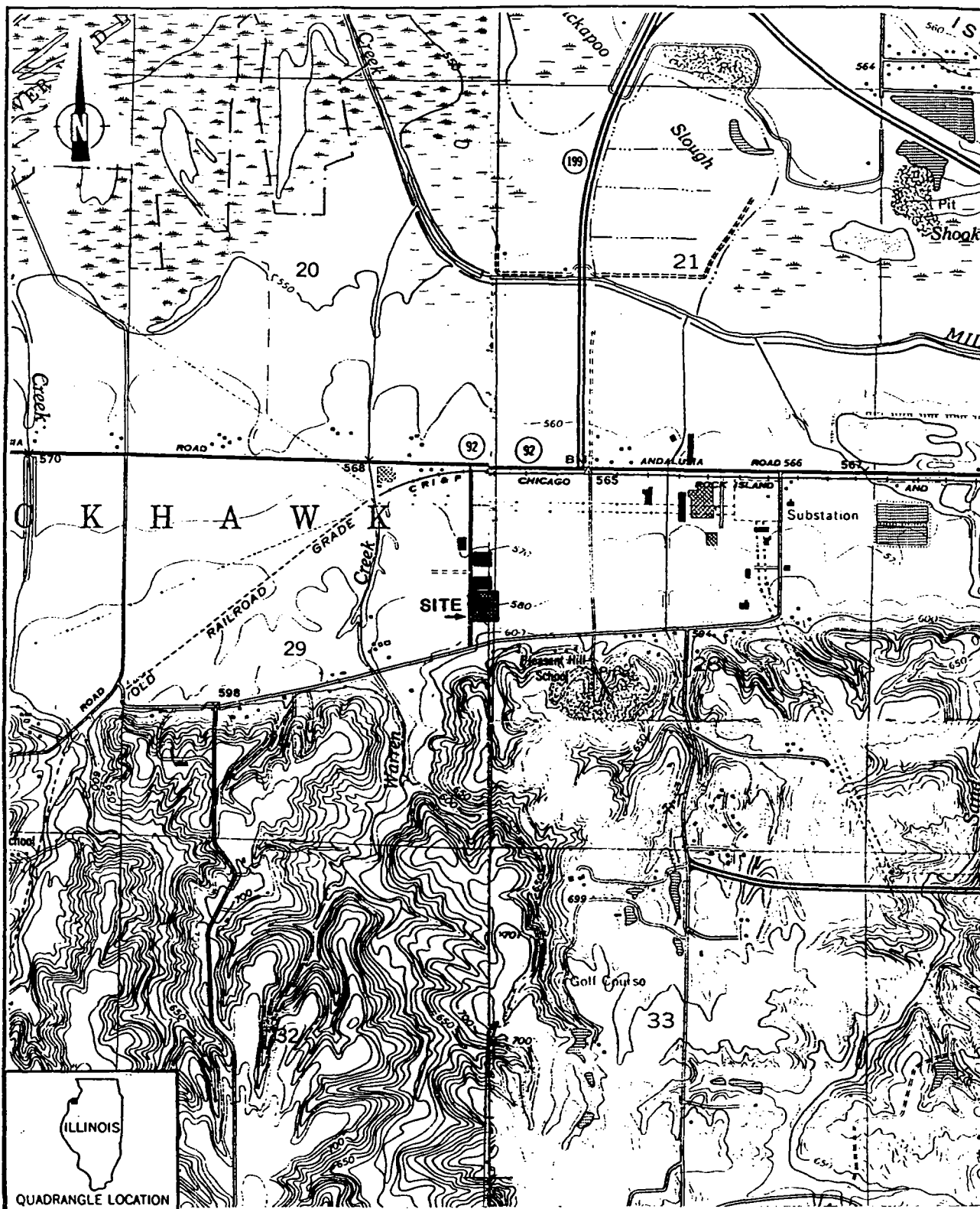
The Export Packaging site is an active facility where cardboard box materials are wax coated and stored for subsequent sale. The current property owner is Miller Container Corporation of Milan, Illinois.

The approximately 5-acre site is located within the Rock Island Industrial Park at 8201 West 42nd Street, approximately 1/3 mile south of Andalusia Road in Rock Island, Illinois (SE1/4NE1/4 sec. 29, T.17N., R.2W.) (see Figure 2-1 for site location). A 4-mile radius map of the area of the site is provided in Appendix A.

2.3 SITE HISTORY

Miller Container Corporation (MCC) of Milan, Illinois, is the current owner and operator of the Export Packaging site. MCC purchased the 5-acre property in 1985. On-site business operations since that time have been primarily storage of corrugated-paper boxes. MCC also applies wax to a particular line of boxes at the site, but the waxing process neither requires nor produces any hazardous materials (Coopman and Rose 1989).

Ownership prior to MCC's purchase of the 5-acre property in 1985 is unclear. According to Bill Rose, Special Projects Manager for MCC, his



SOURCE: Ecology and Environment, Inc. 1989; BASE MAP: USGS, Andalusia, IL-10 Quadrangle, 7.5 Minute Series, 1953, Photorevised 1975; Milan, IL-10 Quadrangle, 7.5 Minute Series, 1953, Photorevised 1975.

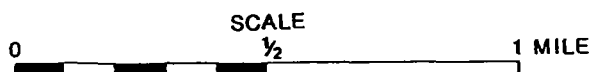


FIGURE 2-1 SITE LOCATION

company purchased the property from a trustee account held with the Rock Island Bank, in Rock Island, Illinois. However, Dave Coopman, Sales Manager for Export Packaging (which leased the site from 1979 through 1984), has claimed that the Paramount Group, Inc. (Paramount), of Chicago, Illinois, owned the property from 1981 until it was sold to MCC in 1985. Coopman also maintains that Centennial Properties, Ltd. (Centennial), in Rock Island, Illinois, had originally developed the property in 1979 and then sold it to Paramount in 1981. Ownership of the 5-acre property prior to 1979 is not known, but both Coopman and Rose stated that its use was agricultural (Coopman and Rose 1989).

According to Coopman, Export Packaging leased the property from Centennial and Paramount from November 1, 1979, through October 31, 1984. During this time, on-site operations involved painting and packaging farm implement parts for international shipment. Prior to painting, parts were cleaned/degreased with 1,1,1-trichloroethane. According to Coopman, the 1,1,1-trichloroethane was reused until it was spent, no longer possessing its solvent qualities (Coopman and Rose 1989). The waste solvent, classified as a hazardous material, was then drummed and stored inside the Export Packaging facility until a sufficient quantity accumulated and was hauled off-site for disposal.

On November 3, 1981, Pamela LoPinto, of IEPA/DLPC, in Rockford, Illinois, received an anonymous complaint, claiming that Export Packaging had been dumping waste "trichlorethylene" (trichloroethylene was misspelled in the original document) in the gravel lot immediately south of the on-site building (LoPinto 1981).

In a follow-up interview and investigation on November 5, 1981, LoPinto reported Coopman's admission that waste 1,1,1-trichloroethane was being dumped behind the facility (LoPinto 1981). In a later telephone conversation between Coopman and LoPinto (LoPinto 1982), Coopman admitted that Export Packaging had dumped approximately 12 drums of the solvent over a 2 1/2-month period in fall 1981. He also stated that, prior to spring 1981, the company dumped approximately 1 drum per week of the spent solvent. Coopman added that he had been told of this earlier dumping by another employee.

On February 11, 1982, Export Packaging was notified by IEPA of the results of the LoPinto report. Export Packaging would be classified

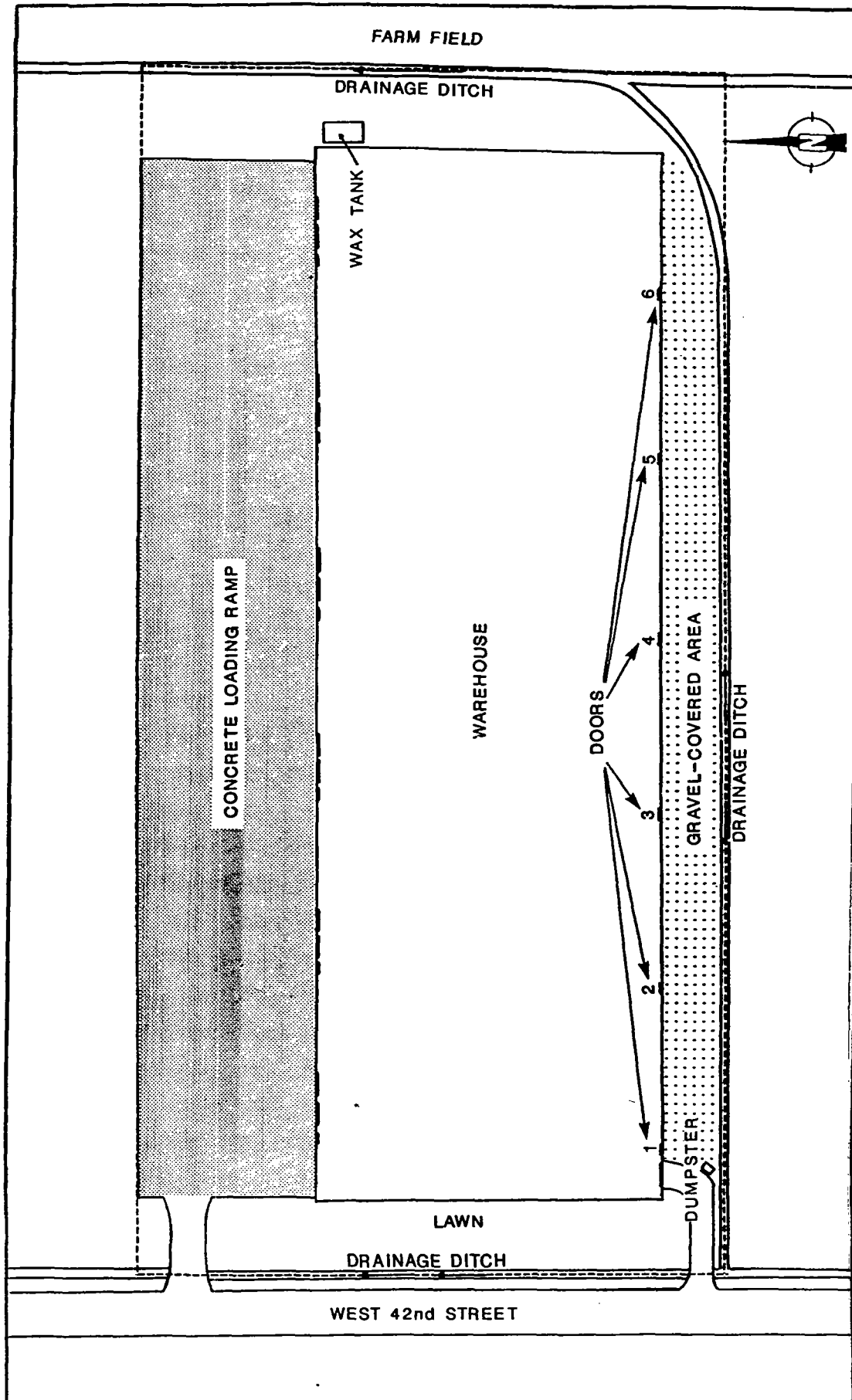
under RCRA as a small quantity generator of hazardous waste and, as such, must comply with the requirements of 40 CFR 261.5 (Wengrow 1982).

A later IEPA inspection of the site on April 23, 1984, indicated that Export Packaging was storing the hazardous waste solvent for a period exceeding 90 days. As a result, they were to be classified as both a generator and storage facility for hazardous waste (Wengrow 1984).

On August 2, 1984, Export Packaging submitted a hazardous waste storage facility closure plan to IEPA. IEPA approved the plan on October 24, 1984, and the site was closed as a hazardous waste storage facility under 35 Illinois Administrative Code, Part 725 (Eastep 1984). On October 31, 1984, Export Packaging moved its operations out of the facility at 8201 West 42nd Street in Rock Island, Illinois.

According to hazardous waste hauling manifests, over the 5-year period that Export Packaging was in operation at the site, a total of 37 drums of waste 1,1,1-trichloroethane were hauled from the facility. Records identify the hauler of the waste as Di-Chem Company (U.S. EPA ID: ILD086035821) of Moline, Illinois.

According to state and federal files collected by FIT, no other regulatory actions have been taken by IEPA at the Export Packaging site.



SOURCE: Ecology and Environment, Inc. 1989.

0 SCALE 100 FEET
 LEGEND
 ----- SITE BOUNDARY

FIGURE 3-1 SITE FEATURES

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Export Packaging site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan, with the exception that two additional soil samples were collected.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Export Packaging site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Stanley Senger, FIT team leader, conducted an interview with Dave Coopman, Sales Manager of Export Packaging, and Bill Rose, Special Projects Manager of MCC. The interview was conducted on February 20, 1989, at 2:00 p.m. in the MCC break room on-site. Also present at the interview was Kurt Sims of FIT. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

On February 21, 1989, at 8:30 a.m. FIT began SSI activities at the Export Packaging site with a reconnaissance inspection of the site and surrounding area. The reconnaissance inspection was conducted in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The inspection included a walk-through of the site to determine appropriate health and safety requirements for conducting

on-site activities and to make observations to aid in characterizing the site. FIT also determined exact on-site sampling locations during the reconnaissance inspection. FIT was not accompanied by site representatives during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Export Packaging site consists of a 120,000-square-foot building (200 x 600 feet) situated on approximately 5 acres of level property (see Figure 3-1 for locations of site features). The building is currently used for storage and finishing of corrugated cardboard boxes (Coopman and Rose 1989).

To the north, the site is bordered by another lot containing a warehouse that appeared to be identical to the one that exists on-site. To the east, the property is bordered by a large expanse of agricultural crop land. A small manufacturing business is located approximately 200 feet south of the site. West 42nd Street forms the western border of the site.

The 5-acre property is occupied predominantly by the warehouse and a concrete truck loading ramp located along the building's north wall. Along the east wall of the warehouse, a large wax storage tank is situated. Weedy vegetation extends out from this east wall approximately 40 feet to a drainage ditch that drains toward the north.

Along the building's south wall, weeds protrude through a gravel-covered surface. This gravel surface extends southward from the wall approximately 30 feet to an east-west flowing drainage ditch. Six doors, through which personnel enter and leave the warehouse, are also located along the south wall of the building. FIT noticed a large green stain on the wall adjacent to door number 3. The stain appeared to be caused by a diluted green paint solution that had been splashed onto the wall. FIT also noted two areas of gravel along the south wall (near doors 2 and 3) where similar greenish stains were apparent. At the southwest corner of the warehouse building, FIT observed a trash receptacle currently used by MCC for general refuse (Coopman and Rose 1989).

Along the west wall of the building, a strip of lawn approximately 50 feet wide extends outward from the wall to a drainage ditch. The ditch slopes toward the north, running parallel to West 42nd Street.

Photographs of the Export Packaging site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analytes List (TAL) analytes were present at the site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

On February 21, 1989, FIT collected six soil samples at the Export Packaging site and one background soil sample from a location near the site. FIT also collected three residential well samples from the area surrounding the site. A portion of each soil sample collected on-site was offered to the site representative, but the offer was declined.

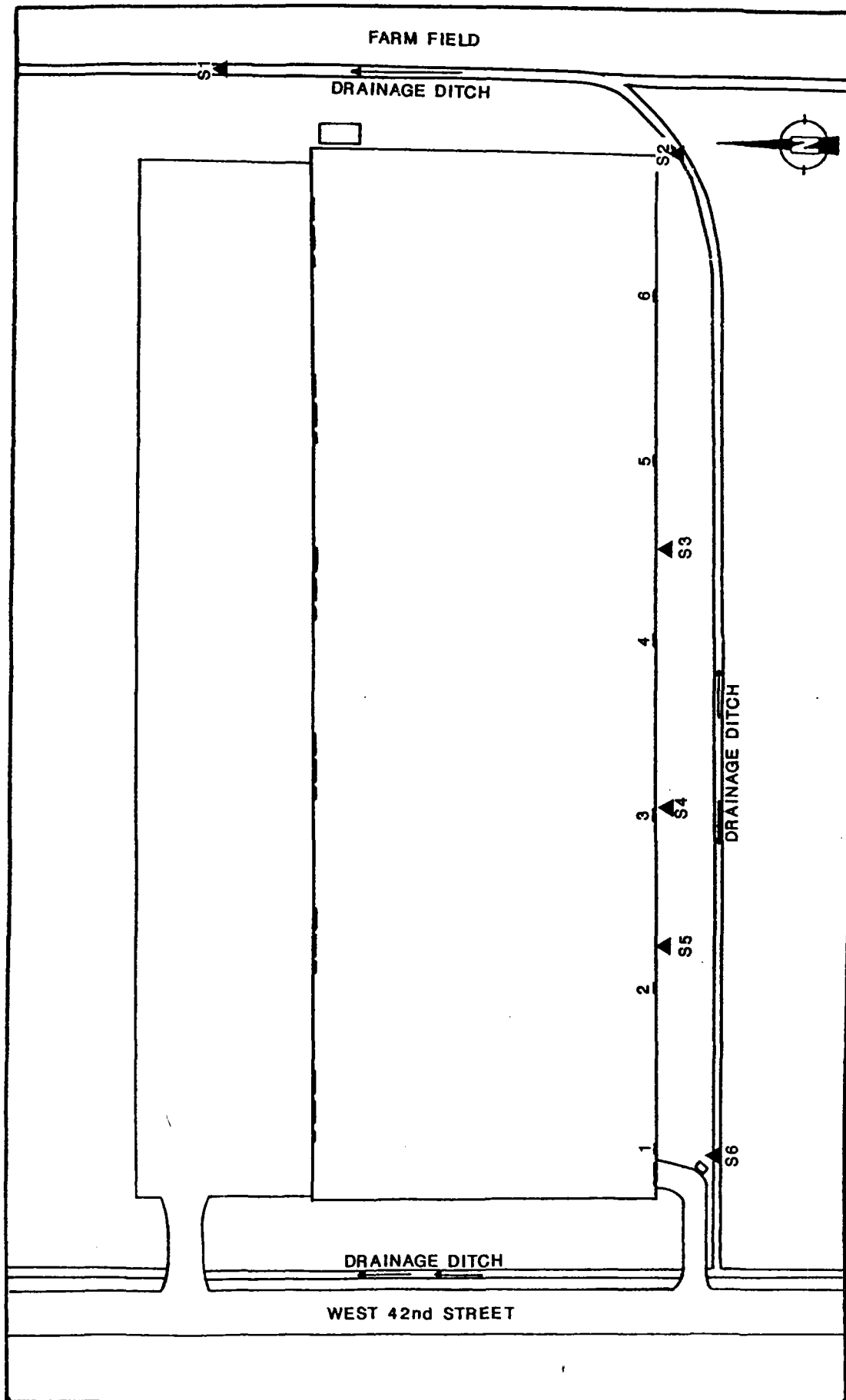
Soil Sampling Procedures. Surface soil sample S1 was collected from the drainage ditch at the east end of the site, approximately 50 feet south of the site's northeast corner (see Figure 3-2 for on-site sampling locations). Soil sample S2 was collected from the drainage ditch at the southeast corner of the warehouse. Soil sample S3 was collected approximately 10 feet from the south side of the warehouse, midway between doors number 4 and 5.

Soil sample S4 was collected from a green-stained, gravel area adjacent to door number 3, approximately 4 feet away from the green-stained area on the south wall of the warehouse building. Soil sample S5 was collected from another green-stained gravel area approximately 20 feet east of door number 2 along the south wall of the building. Soil sample S6 was collected from the drainage ditch directly south of door number 1 along the south wall of the building.

For soil samples S3 through S6, 9 inches of gravel were removed by FIT prior to soil sample collection. The gravel was then backfilled after these samples were collected.

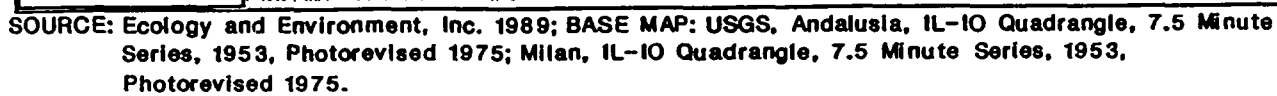
Surface soil sample S7 was collected off-site, approximately 1/4 mile southeast of the Export Packaging site and approximately 100 feet west of State Highway 199 (see Figure 3-3 for off-site sampling locations). This sample location was chosen to represent background characteristics of soils found in the area.

A pick and/or posthole digging tool was used to break through frost and to loosen gravel prior to collecting all soil samples. Stainless steel hand trowels were used to collect all soil samples. With the hand



SOURCE: Ecology and Environment, Inc. 1989.

FIGURE 3-2 ON-SITE SOIL SAMPLING LOCATIONS



trowel, a hole 4 to 5 inches deep was excavated. Soil from the hole was placed into a stainless steel bowl, mixed, and transferred with stainless steel spoons to sample bottles. Soil samples to be analyzed for volatile organic compounds (VOCs) were transferred, without mixing, directly into sample bottles (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The pick and posthole digging tool, and the stainless steel trowels, bowls, and spoons were scrubbed with a solution of Alconox detergent and distilled water and triple-rinsed with distilled water before the collection of each soil sample. All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil samples were analyzed under the U.S. EPA Contract Laboratory Program (CLP) for TCL compounds by Acurex Corporation of Mountain View, California, and for TAL analytes by Enseco/Rocky Mountain Analytical of Arvada, Colorado.

Residential Well Sampling Procedures. Residential well samples (indicated as RW1, RW2, and RW3) were collected to determine local groundwater characteristics.

The residential well sampling locations chosen were the nearest available sampling points to the site. Sample RW1 was collected at a residence approximately 1/2 mile northwest of the site (see Figure 3-3 for off-site sampling locations). According to the well owner, the well was approximately 85 feet deep. Sample RW2 was collected at a residence located approximately 3/8 miles northwest of the site. The well depth was unknown, but FIT personnel could see water in the well casing at a depth of approximately 20 feet. Sample RW3 was collected at a residence located approximately 1,000 feet southeast of the site. The residence was situated on a hill, approximately 50 feet above the elevation of the site. According to the owner, the well is 100 to 125 feet deep.

All residential well samples were collected from outlets that bypassed water treatment systems. For all three samples, water was allowed to discharge from the outlet for approximately 15 minutes before samples were collected to insure that the sample source had been purged of standing water. FIT noticed that the water purged from the third residential well (RW3) was a deep rusty-brown color for the first 20 to

30 seconds after the outlet was opened; the sample collected, however, was clear.

A distilled water field blank and a duplicate residential well sample were collected in accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements. The duplicate sample was collected at location RW1 (see Table 3-1 for addresses of residential well sampling locations). All residential well samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, residential well samples were analyzed for TCL compounds and TAL analytes by Central Regional Laboratory (CRL, Chicago, Illinois).

Table 3-1

ADDRESSES OF RESIDENTIAL WELL SAMPLING LOCATIONS

Sample	Well Depth* (feet)	Address
RW1 and Duplicate	85	4615 78th Avenue West Milan, Illinois 61264
RW2	Unknown	4310 78th Avenue West Milan, Illinois 61264
RW3	125	4106 85th Avenue West Milan, Illinois 61264

* Well depths were provided to FIT by owners.

Source: Ecology and Environment, Inc. 1989.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil samples and residential well samples for TCL compounds and TAL analytes.

4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

Soil Sample Results. Chemical analysis of FIT-collected soil samples revealed substances from the following groups of TCL compounds: common laboratory artifacts, halogenated hydrocarbons, polycyclic aromatic hydrocarbons, and pesticides. Chemical analysis of FIT-collected soil samples also revealed the presence of TAL analytes, including heavy metals and common soil constituents (see Table 4-1 for complete soil sample chemical analysis results).

Residential Well Sample Results. Chemical analysis of FIT-collected residential well samples revealed no TCL compounds. Chemical analysis of FIT-collected residential well samples revealed the presence of TAL analytes from the following groups: heavy metals and common soil constituents (see Table 4-2 for complete residential well sample chemical analysis results).

U.S. EPA CLP and CRL quantitation/detection limits are provided in Appendix D.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
PIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters		Sample Number						
	S1	S2	S3	S4	S5	S6	S7	
Date	2/21/89	2/21/89	2/21/89	2/21/89	2/21/89	2/21/89	2/21/89	
Time	1100	1130	1145	1250	1310	1330	1400	
CLP Organic Traffic Report Number	ECQ51	ECQ52	ECQ53	ECQ54	ECQ55	ECQ56	ECQ57	
CLP Inorganic Traffic Report Number	MECY50	MECY51	MECY52	MECY53	MECY54	MECY55	MECY56	
Compound Detected								
(values in $\mu\text{g/kg}$)								
Volatile Organics								
methylene chloride	57	38	87	130	130	10	150	
acetone	--	--	--	--	--	--	180JB	
2-butanone (MEK)	--	--	--	--	--	--	55	
tetrachloroethene	--	--	--	5J	--	--	--	
toluene	1J	--	3J	--	4J	--	1J	
Semivolatile Organics								
anthracene	110J	--	--	--	--	--	--	
fluoranthene	200J	--	--	--	--	--	--	
pyrene	190J	--	--	--	--	--	--	
Pesticides/PCBs								
Dieldrin	20J	--	--	4.8J	9.5J	--	--	
Analyte Detected								
(values in mg/kg)								
aluminum	8,830	7,890	11,500	9,660	7,440	8,590	10,600	
arsenic	1.7JBW	1.8B	2.5	1.3JBW	1.9B	3.5	6.2	
barium	120	68.3	113	132	114	47.9	131	
beryllium	0.52B	0.48B	0.62B	0.50B	0.50B	0.52JB	0.63JB	
calcium	7,510	12,100	4,320	5,760	7,130	4,430	4,950	
chromium	13.1	11.7	15.5	13.9	11.2	11.7	16.5	

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number						
	S1	S2	S3	S4	S5	S6	S7
cobalt	5.7B	10.9B	10.3B	9.1B	6.2B	5.4B	11.3B
copper	16.2	10.8	31.5	12.3	9.5	13.2	28.6
iron	12,000	13,200	15,900	11,900	10,900	14,200	19,800
lead	12.0	4.9	9.1	15.0	15.8	6.6	11.1
magnesium	1,940	1,530	2,100	1,610	1,230	1,560	3,990
manganese	557	1,080	930	664	791	216	803
nickel	10	16.8	17.0	11.2	9.6	10.4	19.5
potassium	697B	471B	761B	653B	549B	422B	1,050B
selenium	0.37B	--	0.48B	0.36B	0.24B	--	--
vanadium	22.4	22.2	29.2	23.3	19.9	20.8	34.1
zinc	56.6JE	31.1JE	42.7JE	40.4JE	38.5JE	31.2JE	55.4JE

-- Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is < 50% of spike absorbance.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1989.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED RESIDENTIAL WELL SAMPLES

Sample Collection Information and Parameters	RW1	Duplicate	Sample Number		Blank
			RW2	RW3	
Date	2/21/89	2/21/89	2/21/89	2/21/89	2/21/89
Time	1015	1020	1040	1220	1015
CRL Log Number	89FS09S75	89FS09B75	89FS09S76	89FS09S77	89FS09R08
Specific Conductivity (μ hos/cm)	600	600	600	500	0
pH	6.56	6.56	6.87	7.08	7.75
<u>Compound Detected</u>					
(values in μ g/L)					
<u>Semivolatile Organics</u>					
bis(2-ethylhexyl)phthalate	--	--	.8J	.7J	--
<u>Analyte Detected</u>					
(values in μ g/L)					
barium	508	521	114	330	--
calcium	78,200	77,400	97,200	32,700	--
copper	--	6.1	9.0	6.0	--
iron	935	932	383	1,130	--
lead	--	--	--	2J	1J
magnesium	32,100	32,300	27,400	12,600	--
manganese	44.8	44.6	206	6.0	--
sodium	21,600	22,100	12,900	101,000	--
zinc	316	323	--	618	--
strontium	590	600	154	225	10U

-- Not Detected.

Table 4-2 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
U	Compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.

Source: Ecology and Environment, Inc. 1989.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section contains a discussion of data and information that apply to potential migration pathways and targets of TCL compounds and/or TAL analytes that may be attributable to the Export Packaging site. The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

TAL analytes were detected in groundwater within 1/2 mile of the Export Packaging site. These analytes cannot be attributed to the Export Packaging site because the same TAL analytes were also detected in the background soil sample and are commonly found in soil materials in this area (United States Geological Survey [USGS] 1984).

No TCL compounds were detected in the residential well samples, with the exception of a trace concentration of the common laboratory artifact, bis(2-ethylhexyl)phthalate, which cannot be attributed to the Export Packaging site.

A low potential exists for TCL compounds and/or TAL analytes to migrate from the site to groundwater in the vicinity of the site. This low potential is based on the following information.

- TCL compounds and TAL analytes have been detected in soil samples collected on-site. Concentrations of those TCL

compounds and TAL analytes, however, are low or are less than those concentrations detected in the background soil sample.

- Area well logs indicate that the unsaturated materials in the vicinity of the site are composed primarily of clay and silty clay with some thin sand and gravel lenses. These clay materials are likely to be characterized by low permeability and hydraulic conductivity.
- Liquid waste 1,1,1-trichloroethane was reportedly dumped on-site in the past (LoPinto 1982).
- The site has no special containment features for liquid waste spillage or disposal.

The general geology of the area within a 3-mile radius of the site consists of approximately 20 to 120 feet of glacial sediments. These sediments are part of the Kellerville Till member of the Glasford Formation and overlie shale bedrock. Well logs representative of the area of the site indicate that the glacial sediments are approximately 20 feet thick near the site and are composed predominantly of clay and silty clay with some interspersed sand and gravel deposits (well logs representative of the area are included in Appendix E).

Underlying the Kellerville Till is a potential confining bed of Devonian shale of the New Albany Group. Well logs from within a 3-mile radius of the site indicate that this shale layer is continuous and ranges in thickness from approximately 10 feet near the site to approximately 115 feet. The aquifer of concern consists of Silurian Niagaran dolomite that underlies the Devonian shale layer.

The Niagaran dolomite is approximately 200 feet thick throughout the area of the site (Student et al. 1981). Ordovician shale of the Maquoketa Group underlies the Niagaran dolomite aquifer and is also approximately 200 feet thick in the area of the site (Student et al. 1981), forming a second confining layer beneath the aquifer of concern.

Drinking water within a 3-mile radius of the site is provided by one of three sources. The city of Rock Island provides drinking water to the site and to a large area directly east of the site that extends 2 miles from the site to the village of Milan. The source of Rock Island's drinking water is the Mississippi River. Rock Island's surface water intakes are located approximately 5 1/2 miles northeast of the Export Packaging site.

The village of Milan supplies drinking water to an area located 2 miles from the site to the east. Milan's drinking water is supplied by two municipal wells serving approximately 6,264 persons. Only one of the two Milan wells is located within the 3-mile radius of the site. This well, Milan #3, draws water from the aquifer of concern at a depth of 453 feet and is used as a backup source of drinking water. The other well, Milan #4, is the city's primary source of drinking water and is located outside of the 3-mile radius of the site. Two additional wells once operated at Milan, but are not currently used and are located outside of the 3-mile radius of the site (McCarthy 1989).

The remaining area within the 3-mile radius of the site is not served by any municipal water supply system. Well logs indicate that private wells in this area draw drinking water from the Niagaran dolomite at depths ranging from approximately 50 feet in areas of lower elevation near the site, to greater than 220 feet in areas of higher elevation.

None of the well logs on file at the Illinois State Water Survey indicate that the surficial Kellerville Till unit is used as a drinking water source in the area (Herzog 1982). Direction of groundwater movement within the till unit has been determined to be toward the northeast (Herzog 1982), but within the aquifer of concern, the groundwater flow direction has not been determined. The depth to the aquifer of concern beneath the site has not been determined, but FIT estimates the depth to be approximately 50 feet, based on area well logs. Based upon site elevation and Illinois River elevation, the depth to groundwater beneath the site has been estimated by FIT to be approximately 25 feet.

The potential groundwater target population includes approximately 7,878 persons. This estimate includes 6,264 persons served by the Milan municipal water system and an additional estimated 1,614 persons within

a 3-mile radius of the site who are served by private wells drawing from the aquifer of concern. This latter estimate was obtained by counting residences outside of the municipal water distribution boundaries of the city of Rock Island and the village of Milan, but within the 3-mile radius of the site, using USGS topographic maps of the area (USGS 1953). The total number of residences was then multiplied by the 1980 Census average for number of persons per household in Rock Island County (2.66) (U.S. Bureau of the Census 1982).

5.3 SURFACE WATER

No surface water samples were collected during the SSI of the Export Packaging site.

The nearest surface water body is Warren Creek, located approximately 1/3 mile west of the site. Warren Creek flows toward the north and adjoins Mill Creek approximately 1 mile northwest of the site. Mill Creek flows northwest through the Upper Mississippi River Wildlife and Fish Refuge, located 1 1/2 miles northwest of the site. Once through this wetland/refuge area, Mill Creek drains into the Mississippi River approximately 2 1/2 miles northwest of the site.

A low potential exists for TCL compounds and/or TAL analytes to migrate to surface water from the Export Packaging site. This low potential is based on the following information:

- TCL compounds and TAL analytes were detected on-site, but their respective concentrations are low and are subject to even greater dilution with migration;
- Drainage ditches surround the site on three sides, leading to Warren Creek and Mill Creek; however, the path these drainage ditches follow is fairly long (2/3 miles) and level (1% slope), so the opportunity for migration of TCL compounds and TAL analytes may be reduced due to potential fixation on the soils along the migration pathway;
- Liquid waste 1,1,1-trichloroethane was reportedly dumped on-site in the past (LoPinto 1982); and

- The site has no special containment features for liquid waste spillage or disposal.

According to David Day, of the Illinois Department of Conservation Streams Program, no studies of Warren Creek are contained in Streams Program files (Day 1989). Neither Warren Creek nor Mill Creek is used as a drinking water source. Mill Creek is used for recreational fishing (Rockford Map Publishers, Inc. 1983). Both streams drain into the Mississippi River downstream of Rock Island's municipal water intakes, and no other drinking water intakes exist within 3 miles downstream of the point at which Mill Creek drains into the Mississippi River.

To the east of the site (approximately 1 to 3 miles), three other creeks (Sand Creek, Kyte Creek, and Sheldon Creek) flow north into Mill Creek. In addition to these creeks, the Rock River trends in a northwest direction approximately 2 1/2 miles northeast of the site. According to USGS topographic maps (USGS 1953), no surface water routes exist between the Export Packaging site and these water bodies.

5.4 AIR

A release of potential contaminants to the air was not documented during the SSI of the Export Packaging site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, explosimeter, oxygen meter, hydrogen cyanide monitor, and radiation monitor) did not detect levels above background concentrations at the site (E & E 1987). In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential exists for windblown contaminants to migrate off-site, based on the fact that TCL compounds and TAL analytes were detected in surface soil samples collected on-site. This potential is low, however, because the entire site is either covered by the on-site building, the parking lot, gravel, or grassy or weedy vegetation.

The population within a 4-mile radius of the site is approximately 7,036 persons. This estimate was obtained by counting residences on USGS topographic maps of the area (USGS 1953) within a 4-mile radius of the site. The total number of residences was then multiplied by the

1980 Census average for Rock Island County of 2.66 persons per household (U.S. Bureau of the Census 1982).

5.5 FIRE AND EXPLOSION

During the SSI of the Export Packaging site, no evidence of fire or explosive conditions was observed. FIT explosimeter readings indicated no apparent potential for explosions at the site.

5.6 DIRECT CONTACT

According to state file information reviewed by FIT, and an interview with Export Packaging and Miller Container Corporation representatives, no documentation exists of an incident of direct contact with TCL compounds or TAL analytes at the Export Packaging site (Coopman and Rose 1989).

There is a potential for the public to come into direct contact with TCL compounds and/or TAL analytes detected at the site, based on the following information:

- TCL compounds and TAL analytes were detected in on-site soils;
- The site is located in an industrial park and has no fence or other structure to prevent public access; and
- Eight employees currently work at the site (Coopman and Rose 1989).

The potential for the public to come into direct contact with TCL compounds and/or TAL analytes detected in on-site soils is low because the entire site is covered by either the building, parking lot, gravel, or grassy/weedy vegetation.

The population within a 1-mile radius of the site is approximately 229 persons. This estimate was obtained using USGS topographic maps of the area of the site (USGS 1953). A count was made of houses within a

1-mile radius of the site and multiplied by the 1980 Census average of 2.66 persons per household for Rock Island County (U.S. Bureau of the Census 1982).

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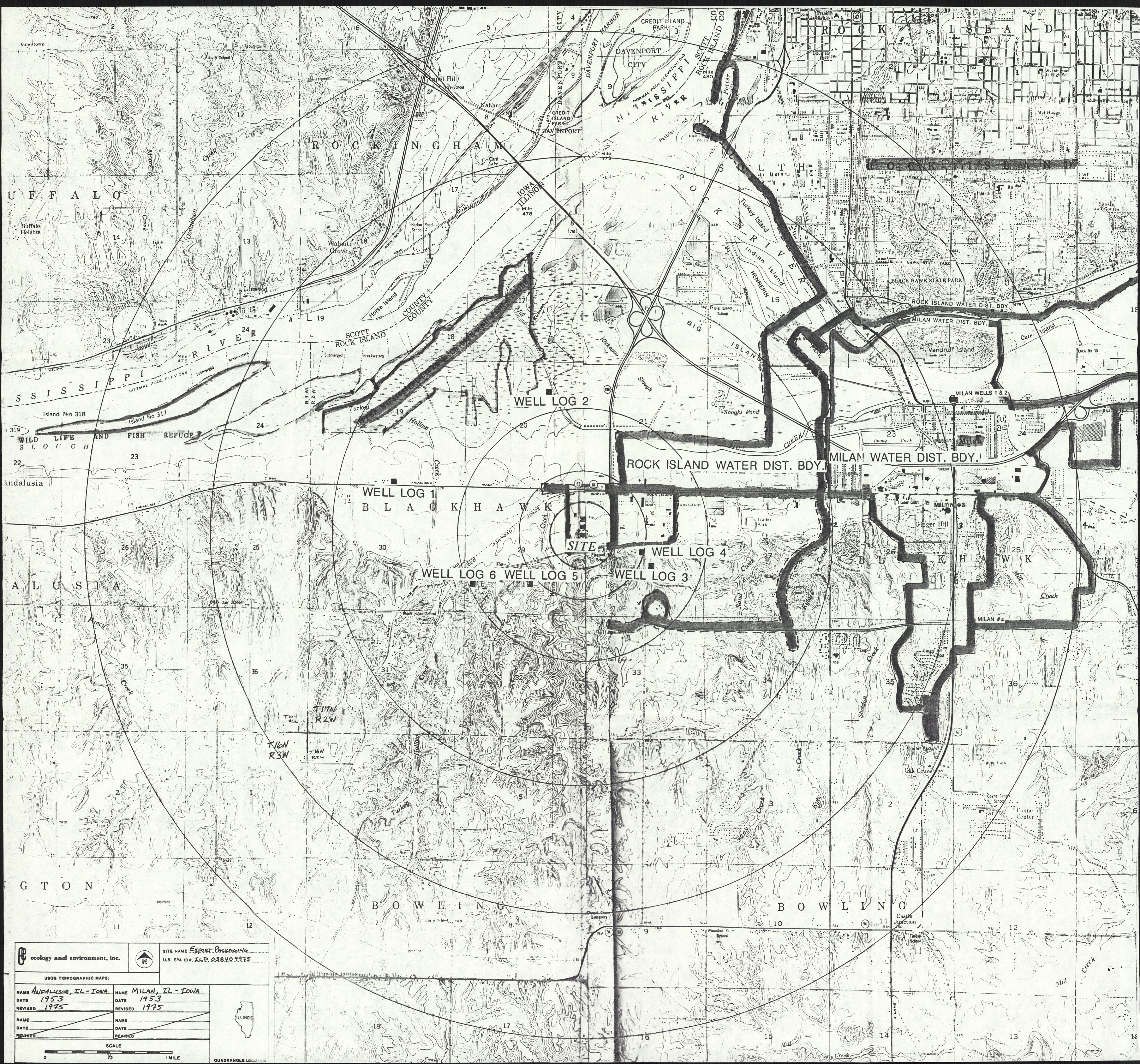
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3430:3

APPENDIX A

SITE 4-MILE RADIUS MAP



ecology and environment, inc.

U.S. EPA ID# ILD 038409975

USGS TOPOGRAPHIC MAPS:

NAME ANDALUSIA, IL-IOWA	NAME MILAN, IL-IOWA
DATE 1953	DATE 1953
REVISED 1975	REVISED 1975
NAME	NAME
DATE	DATE
REVISED	REVISED

SCALE

0 1/2 1 MILE

QUADRANGLE

APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D038409975

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A SOLID
☐ B POWDER, FINES
☐ C SLUDGE
☐ D OTHER (Specify) _____
☐ E SLURRY
☐ F LIQUID
☐ G GAS

02 WASTE QUANTITY AT SITE
(Measure of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS @ 37 drums

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
☐ B CORROSIVE
☐ C RADIOACTIVE
☐ D PERSISTENT
☐ E SOLUBLE
☐ F INFECTIOUS
☐ G FLAMMABLE
☐ H IGNITABLE
☐ I HIGHLY VOLATILE
☐ J EXPLOSIVE
☐ K REACTIVE
☐ L INCOMPATIBLE
☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			* See section 2.3, SITE HISTORY.
OLW	OILY WASTE			
SOL	SOLVENTS	@ 37	DRUMS	* 1-1-1, Trichloroethane
PSD	PESTICIDES	UNKNOWN		
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN		Currently there is no hazardous wastes stored or used at the site according to current operator of site.
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	HIGHEST 05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene chloride	75-09-2	Soil Sample S4 & S5	130	49/Kg
SOL	tetrachloroethene	127-18-4	Soil Sample S4	5 J	"
SOL	Toluene	108-88-3	Soil Sample S5	4 J	"
OCC	Anthracene	120-12-7	Soil Sample S1	110 J	"
OCC	Fluoranthene	86-73-7	Soil Sample S1	200 J	"
OCC	Pyrene	129-00-0	Soil Sample S1	190 J	"
PSD	Dieldrin	60-57-1	Soil Sample S1	20 J	"
MES	Arsenic	7440-38-2	Soil Sample S6	3.5	mg/Kg
MES	Chromium	7440-47-3	Soil Sample S3	15.5	"
MES	Cobalt	7440-48-4	Soil Sample S2	10.98	"
MES	Copper	7440-50-8	Soil Sample S3	31.5	"
MES	LEAD	7439-92-1	Soil Sample S5	15.8	"
MES	Manganese	7439-96-5	Soil Sample S2	1080	"
MES	ZINC	7440-66-6	Soil Sample S1	56.6 JE	"

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	NONE		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (See specific references, e.g., study files, sample analysis, reports)

E & E Inc. Site Inspection and Interview, 2/20 and 2/21, 1989

E & E / FIT FILES, REGION II, Chicago, IL.

NOTES ① Highest concentration was noted in background soil sample (S7) or in blank.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION

01 STATE

02 SITE NUMBER

IL

0038409975

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 7878

04 NARRATIVE DESCRIPTION

None observed in area residential wells sampled by FIT on 2/21/89. See SIR narrative, section 5.2 GROUNDWATER.

01 ☒ B. SURFACE WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION

The nearest body of surface water is Warren Creek, about 1/4 mile west of the site. FIT did not collect surface water or sediment samples from Warren Creek. See SIR narrative, section 5.3 Surface Water

01 ☒ C. CONTAMINATION OF AIR

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 7036

04 NARRATIVE DESCRIPTION

None Documented in E+E, Inc./FIT FILES; None observed during site inspection
SEE SECTION 5.4, AIR.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION

None Documented in E+E, Inc./FIT FILES: None observed during site inspection.
SEE SECTION 5.5, FIRE & EXPLOSION.

01 ☒ E. DIRECT CONTACT

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 229

04 NARRATIVE DESCRIPTION

None documented in E+E/FIT FILES: None observed during site inspection.
See section 5.6 DIRECT CONTACT.

01 ☒ F. CONTAMINATION OF SOIL

02 ☒ OBSERVED (DATE: 02-21-89) ☐ POTENTIAL ☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: 0.5 Ac.

04 NARRATIVE DESCRIPTION

Soil samples collected on-site revealed evidence of TCL compounds and THL Analytes. See section 4.2 Results of Chemical Analysis of FIT-Collected Samples.

01 ☒ G. DRINKING WATER CONTAMINATION

02 ☒ OBSERVED (DATE: 02-21-89) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 7878

04 NARRATIVE DESCRIPTION

Three residential wells sampled by FIT indicated no TCL compounds present. THL analytes were detected, but cannot be attributed to the site.
See section 5.2 Groundwater.

01 ☒ H. WORKER EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: 8

04 NARRATIVE DESCRIPTION

Miller Container Corp., current owner and operator of the site, employs eight full-time workers. There is no documentation in E+E, Inc./FIT FILES of any past worker exposure or injury on the site. See section 5.6 Direct Contact.

01 ☒ I. POPULATION EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 7878

04 NARRATIVE DESCRIPTION

See Sections A, C, D, E and G above.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D038409975

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☒ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

NONE Documented or observed during site inspection. A potential exists through contact with contaminated soils observed on-site; the potential is low due to large areas of permanent cover (pavement, building, and gravel) found on-site.

01 ☒ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION *(include names of species)*

None documented or observed during site inspection. A potential exists due to presence of TCL compounds; TCL analytes detected in soils on-site. The potential is low due to location of site in industrialized area.

01 ☒ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None documented or observed during site inspection. See J and K above.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

02 ☒ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

SEE block P. below.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None documented or observed during site inspection.
None documented in state or federal files collected by FIT.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None observed during SSI on 2/21/89.
SEE block P. below.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☒ OBSERVED (DATE: 11/03/81)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Witness observed and reported unauthorized dumping of 7 barrels of "trichloroethylene" behind (south) the site. Site representative admitted to state (IEPA) investigator that the dumping had occurred. It is unknown if storm drains or sewers exist in the vicinity of the site; None were observed by FIT on 02/21/89.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None documented in E&E, Inc./FIT FILES or noted during site inspection.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 7878 persons

IV. COMMENTS

The likelihood of any contaminant migration from the site is low due to silty-clay geological conditions in vicinity of the site and level topography. Farm land East of site may be responsible for some TCL compounds noted in soil sample S1 (i.e. pesticide Dieldrin).

V. SOURCES OF INFORMATION *(cite specific references, e.g., state files, sample analysis, reports)*

E&E Site Inspection and Interview on 2/20 and 2/21, 1989.
E&E, Inc./FIT FILES, Region IV, Chicago, IL.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D038409975

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	One warehouse,
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	120,000 ft. ²
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input checked="" type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	approx. 5 acres
<input checked="" type="checkbox"/> H. OPEN DUMP	approx. 20 drums		<input type="checkbox"/> H. OTHER (Specify)	(2.75 acre building @ 2 acre paved lot)
<input type="checkbox"/> I. OTHER (Specify) None	of trichloroethene			

07 COMMENTS

Waste 1-1-1 Trichloroethane was used to clean parts prior to painting. The trichlor was recovered and reused until it no longer retained its solvent qualities. A Site representative admitted to the IEPA that 12 drums had been dumped, that he knew of, as of 11/5/81; prior to this, the site representative said, about 1 drum/week was dumped. A total estimate of 20 drums has been used because it is not clear how long the dumping of 1 drum/week went on for.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

(N/A) Currently, no drums of ^{hazardous} waste are on the property. The area in which the waste was dumped had no diking, liner or barrier around it. The dumping occurred on a gravel lot, south of the Export Packaging Warehouse.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS FIT removed gravel covering prior to collecting soil samples from the area where the observed dumping had occurred. Silty-clay was found to underlay the gravel area south of the building on-site.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. State files, sample analyses, reports)

E&E, Inc. Site Inspection and Interview on 2/20 and 2/21, 1989.

E&E, Inc./FIT FILES, Region V, Chicago, IL.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D038409975

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A ☒ B ☐
NON-COMMUNITY C ☐ D ☐

02 STATUS

ENDANGERED AFFECTED MONITORED
A ☐ B ☐ C ☒
D ☐ E ☐ F ☐

03 DISTANCE TO SITE

A. approx. 6 mi.
B. 1000 ft.

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING

☐ B. DRINKING

(Other sources available)

COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)

☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION

(Other sources available)

☐ D. NOT USED, UNUSABLE

02 POPULATION SERVED BY GROUND WATER 1878 persons

03 DISTANCE TO NEAREST DRINKING WATER WELL @ 1000 ft.

04 DEPTH TO GROUNDWATER

@ 25 ft.

05 DIRECTION OF GROUNDWATER FLOW

Northeast

06 DEPTH TO AQUIFER
OF CONCERN

@ 50 ft.

07 POTENTIAL YIELD
OF AQUIFER

unknown (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

See section 5.2 Groundwater.

10 RECHARGE AREA

☐ YES
☒ NO

COMMENTS

Although not determined,
it is assumed that groundwater
discharges from the aquifer to rivers in
the vicinity of the site.

11 DISCHARGE AREA

☒ YES
☐ NO

COMMENTS

Since groundwater flow has been
estimated to be northeasterly,
it is assumed that groundwater
discharges into the Rock River north-
east of the site.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION,
DRINKING WATER SOURCE

☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES

☐ C. COMMERCIAL, INDUSTRIAL

☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

WARREN CREEK

☐

@ 1/2 mi.

MILL CREEK

☐

@ 1 mi.

MISSISSIPPI RIVER

☐

@ 2.5 mi.

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

A. 229
NO. OF PERSONS

TWO (2) MILES OF SITE

B. 1019
NO. OF PERSONS

THREE (3) MILES OF SITE

C. 3636
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

@ 120 ft.

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

Approx. 383

04 DISTANCE TO NEAREST OFF-SITE BUILDING

@ 120 ft.

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

In the immediate vicinity of the site, the surrounding property is dominated by commercial storage and industrial uses. Once out of the Rock Island Industrial Park, however, the surrounding area is characterized as a rural-type community. Private dwellings are located in scattered developments and along state and county roadways in the area. A total population of approximately 7036 individuals live within a 4-mile radius of the site.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D03849975

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} - 10^{-8} cm/sec ☒ B. 10^{-4} - 10^{-6} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-8} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) ☒ C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

20 - 120 (m)

04 DEPTH OF CONTAMINATED SOIL ZONE

Unknown (m)

05 SOIL pH

Not determined (unknown)

06 NET PRECIPITATION

-2.0 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.6 (in)

08 SLOPE
SITE SLOPE

<1 %

DIRECTION OF SITE SLOPE

North

TERRAIN AVERAGE SLOPE

≤ 1 %

09 FLOOD POTENTIAL

SITE IS IN unknown YEAR FLOODPLAIN

10

☒ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. N/A (mi)

OTHER

B. 3/4 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

1.0 (mi)

(Higgins' Eye Pearly Mussel)

ENDANGERED SPECIES: Lampsilis higginsii

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

Adjacent to

A. 0.0 (mi)

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. 1.0 (mi)

AGRICULTURAL LANDS
PRIME AG LAND

C. N/A (mi)

AG LAND

D. Adjacent to Ag land

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SEE USGS Topo. Map, 4 mile radius map, Appendix A.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., data files, sample analysis, reports)

E & E, Inc. Site Inspection and Interview on 2/20 and 2/21, 1989.

E & E, Inc./FIT FILES, Region V, Chicago, IL.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D038409975

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	Three residential well samples were collected. Sent to: • Region II Central Regional Laboratory for TCL compounds. •• Region II Central Regional Laboratory for TAL analytes.	N/A
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	6 on-site and one background	Seven soil samples were collected and sent to: • ACUREX Corporation for TCL compounds	N/A
VEGETATION		•• ENSECO/Rocky Mtn. Analytical for	
OTHER		TAL analytes.	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
O ₂ Meter	No readings above or below background.
Explosimeter	No readings above background.
OVA 12B	No readings above background.
RADIATION MINI-ALERT	No readings above background.
HCN monitor	No readings above background.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment, Inc., Chicago, IL. <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology and Environment, Inc., Chicago, IL.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E & E, Inc. Site inspection and interview on 2/20 and 2/21, 1989.
E & E, Inc./FIT Region II FILES, Chicago, IL



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D03B409975

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (if applicable)			
01 NAME MILLER CONTAINER CORP.		02 D+B NUMBER -		10 NAME - SAME -		11 D+B NUMBER -	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) P.O. Box 1130		04 SIC CODE -		12 STREET ADDRESS (P.O. Box, RFD #, etc.) "		13 SIC CODE "	
05 CITY MILAN		06 STATE IL	07 ZIP CODE 61264	14 CITY "		15 STATE "	16 ZIP CODE "
08 YEARS OF OPERATION 1985-Present		09 NAME OF OWNER SAME					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)			
01 NAME Export Packaging		02 D+B NUMBER -		10 NAME - SAME -		11 D+B NUMBER -	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) P.O. Box 733		04 SIC CODE -		12 STREET ADDRESS (P.O. Box, RFD #, etc.) "		13 SIC CODE "	
05 CITY Moline		06 STATE IL	07 ZIP CODE 61265	14 CITY "		15 STATE "	16 ZIP CODE "
08 YEARS OF OPERATION 1981-1985		09 NAME OF OWNER DURING THIS PERIOD PARAMOUNT GROUP, INC.					
01 NAME Export Packaging		02 D+B NUMBER -		10 NAME - SAME -		11 D+B NUMBER -	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) P.O. Box 733		04 SIC CODE -		12 STREET ADDRESS (P.O. Box, RFD #, etc.) "		13 SIC CODE "	
05 CITY Moline		06 STATE IL	07 ZIP CODE 61265	14 CITY "		15 STATE "	16 ZIP CODE "
08 YEARS OF OPERATION 1979-1981		09 NAME OF OWNER DURING THIS PERIOD Centennial Properties, Ltd.					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E&E, Inc. site inspection and interview on 2/20 and 2/21, 1989.
E&E, Inc./FIT FILES, Region I, Chicago, IL.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D038409975

II. ON-SITE GENERATOR

01 NAME
Export Packaging

02 D+B NUMBER
—

03 STREET ADDRESS (P.O. Box, RFD #, etc.)
8201 W. 42nd St.

04 SIC CODE
—

05 CITY
Rock Island

06 STATE
IL

07 ZIP CODE
61201

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Can specify references, e.g., state files, sample analysis, reports)

E&E, Inc. Site inspection and interview on 2/20 and 2/21, 1989.
E&E, Inc./FIT FILES, Region II, Chicago, IL.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D038409975

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ D. SPILLED MATERIAL REMOVED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ E. CONTAMINATED SOIL REMOVED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ F. WASTE REPACKAGED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ G. WASTE DISPOSED ELSEWHERE

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ H. ON SITE BURIAL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ L. ENCAPSULATION

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ M. EMERGENCY WASTE TREATMENT

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ N. CUTOFF WALLS

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ P. CUTOFF TRENCHES/SUMP

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N/A



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D038409975

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

III SOURCES OF INFORMATION *(Cite specific references, e.g., State Reg., sample analysis, reports)*

E&E, Inc. Site inspection and interview on 2/20 and 2/21, 1989.
Region II FIT FILES, Chicago, IL.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

1. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D038409975

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL STATE LOCAL REGULATORY/ENFORCEMENT ACTION

An anonymous claim filed with the IEPA on Nov. 3, 1981, stated that Export Packaging had been dumping hazardous waste trichloroethane in a gravel lot south of their building at 8201 W. 42nd St., Rock Island, IL. A follow up interview/investigation by IEPA officials revealed that the material in question was indeed hazardous and that a representative of the Export Packaging site had admitted to the dumping.

Another IEPA inspection of the Export Packaging facility held in April, 1984 revealed that site officials were not in compliance with the hazardous-waste storage aspects of 40 CFR 261.5. Export Packaging was found to be storing hazardous waste beyond the 90-day allowance for small quantity generators. As a consequence, they were to be classified as both a generator and storage facility of hazardous waste.

Rather than deal with the regulations controlling hazardous waste storage facilities, Export Packaging never applied for a permit to store the waste trichloroethane beyond 90 days. Instead, they submitted to the IEPA a Hazardous Waste Storage Facility Closure Plan. The plan was approved by the IEPA on October 24, 1984. The facility was closed, and by October 31, 1984, Export Packaging moved out of the facility at 8201 West 42nd St. in Rock Island.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E & E, Inc. Site inspection and interview on 2/20 and 2/21, 1989.
FRT REGION II FILES/E & E, Inc. FILES, Chicago, IL.

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 1 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 1100

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25°F

PHOTOGRAPHED BY:

> S. SENER

SAMPLE ID

(if applicable):

> S1



DESCRIPTION: > Close-up view of location which S1 was obtained
> from. Within drainage ditch, east end of site.

DATE: > 2/21/89

TIME: > 1100

DIRECTION OF
PHOTOGRAPH:

> North east

WEATHER

CONDITIONS:

> Sunny, Calm

> high @20°F

PHOTOGRAPHED BY:

> S. SENER

SAMPLE ID

(if applicable):

> S1



DESCRIPTION: > Perspective of S1 and farm fields and surrounding
> area.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 2 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 1130

DIRECTION OF
PHOTOGRAPH:

> North

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> S. SENGHER

SAMPLE ID

(if applicable):

> S2



DESCRIPTION: > Close-up view of location from which S2 was
> collected.

DATE: > 2/21/89

TIME: > 1130

DIRECTION OF
PHOTOGRAPH:

> North

WEATHER

CONDITIONS:

> Mostly Sunny, Calm

> High @25°F

PHOTOGRAPHED BY:

> S. SENGHER

SAMPLE ID

(if applicable):

> S2



DESCRIPTION: > Perspective of location where S2 was collected
> from. Wax tank in background.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 3 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 11:45

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> S. SENER

SAMPLE ID
(if applicable):

> S3



DESCRIPTION: > Close-up view of location from which S3 was obtained.

>

DATE: > 2/21/89

TIME: > 11:45

DIRECTION OF
PHOTOGRAPH:

> Northeast

WEATHER
CONDITIONS:

> Mostly Sunny

> High @25°F

PHOTOGRAPHED BY:

> S. SENER

SAMPLE ID
(if applicable):

> S3



DESCRIPTION: > Perspective of area from which soil sample S3
> was obtained.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 4 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 12:50

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

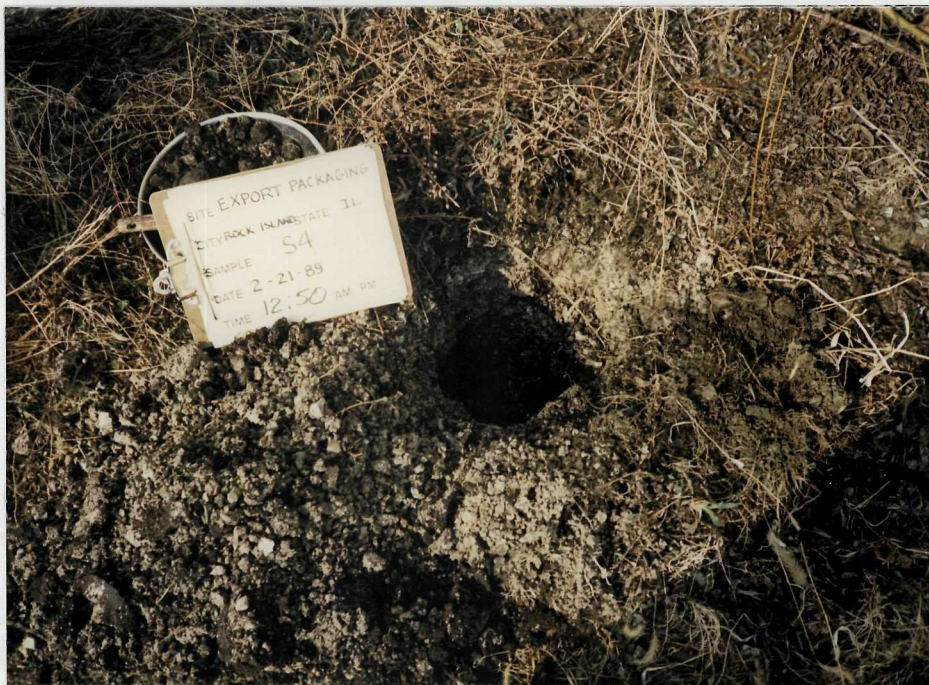
> High @25 F

PHOTOGRAPHED BY:

> S. Senger

SAMPLE ID
(if applicable):

> 54



DESCRIPTION: > Close-up view of location where 54 was
> collected from.

DATE: > 2/21/89

TIME: > 12:50

DIRECTION OF
PHOTOGRAPH:

> WEST

WEATHER
CONDITIONS:

> Same as above

> " " "

PHOTOGRAPHED BY:

> S. Senger

SAMPLE ID
(if applicable):

> 54



DESCRIPTION: > Perspective of location from which 54 was
> collected. Note stain on wall next to door.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 5 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572 SA

DATE: > Feb. 21, 1989

TIME: > 12:50

DIRECTION OF
PHOTOGRAPH:

> Northwest

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> S. Senger

SAMPLE ID

(if applicable):

> 54



DESCRIPTION: > Photo showing location of sample 54 in relation
> to stained area on wall.

DATE: > 2/21/89

TIME: > 13:10

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER

CONDITIONS:

> Mostly Sunny

> high @25°F

PHOTOGRAPHED BY:

> S. Senger

SAMPLE ID

(if applicable):

> 55



DESCRIPTION: > Close-up of area from which sample 55
> was obtained. Gravel stones in this area were stained a
greenish color.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 6 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 13:10

DIRECTION OF
PHOTOGRAPH:

> Northwest

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> S. SENGEL

SAMPLE ID

(if applicable):

> 55



DESCRIPTION: > Perspective of sample location 55.

>

DATE: > 2/21/89

TIME: > 13:30

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER

CONDITIONS:

> Clear, Calm,

> High @25°F

PHOTOGRAPHED BY:

> S. SENGEL

SAMPLE ID

(if applicable):

> 56



DESCRIPTION: > Close-up view of 56.

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 7 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 13:30

DIRECTION OF
PHOTOGRAPH:

> West

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> S. Senger

SAMPLE ID

(if applicable):

> 56



DESCRIPTION: > Perspective of sample location 56 and
> the surrounding conditions.

DATE: > 2/21/89

TIME: > 14:00

DIRECTION OF
PHOTOGRAPH:

> NA

WEATHER

CONDITIONS:

> Clear, calm

> High @25°F

PHOTOGRAPHED BY:

> S. Senger

SAMPLE ID

(if applicable):

> 57



DESCRIPTION: > Close-up view of sample location 57.

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 8 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: 1400

DIRECTION OF
PHOTOGRAPH:NortheastWEATHER
CONDITIONS:mostly sunny, Calm,High @ 25°F

PHOTOGRAPHED BY:

S. Senger

SAMPLE ID

(if applicable):

S7DESCRIPTION: Perspective of background soil sample, S7.Location is about 1/4-mile southeast of the site, 100-feet west of
State Highway 199.DATE: 2/21/89TIME: 14:00DIRECTION OF
PHOTOGRAPH:North

WEATHER

CONDITIONS: Same as abovePHOTOGRAPHED BY: S. Senger

SAMPLE ID

(if applicable): S7DESCRIPTION: Photo taken
from the location where
S7 was collected from.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 9 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 10:15

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

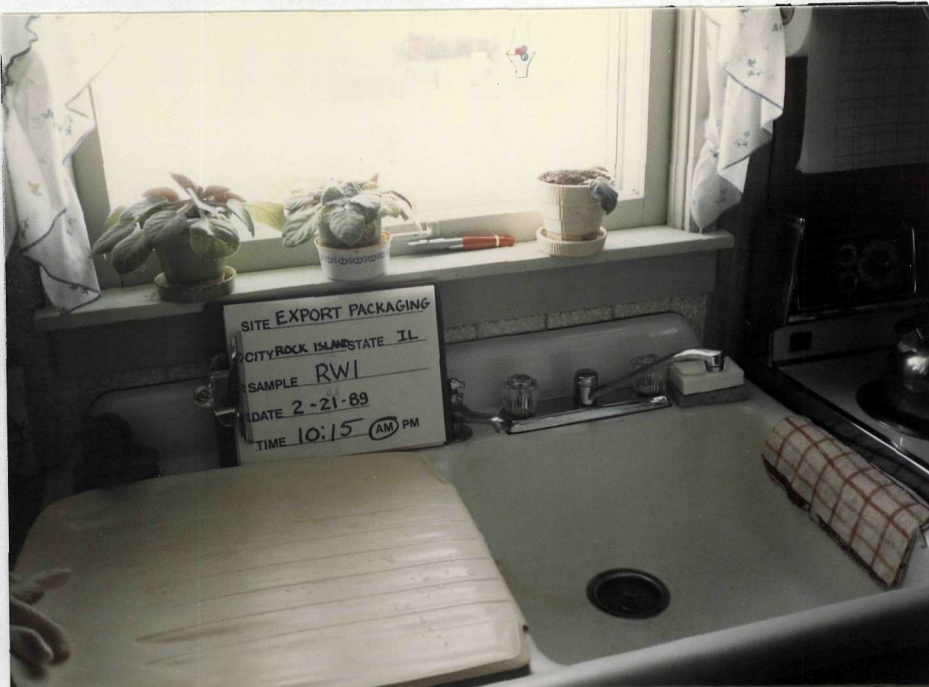
PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID

(if applicable):

> RW1



DESCRIPTION: > Photo placard is adjacent to tap from which RW1
> was collected. A duplicate sample was also collected from
this tap. This residence is @ 1/2 mile northwest of the Export Packaging site.

DATE: > 2/21/89

TIME: > 10:15

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25°F

PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID

(if applicable):

> RW1



DESCRIPTION: > Photo of well-head from which RW1 and the
> duplicate were collected from.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 10 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 10:20

DIRECTION OF
PHOTOGRAPH:

> East

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID
(if applicable):

> Dup.



DESCRIPTION: > Close-up of well-head from which RW1 and
> the duplicate (dup.) were obtained.

DATE: > 2/21/89

TIME: > 10:20

DIRECTION OF
PHOTOGRAPH:

> South east

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

> High @25°F

PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID
(if applicable):

> RW1/Dup.



DESCRIPTION: > Perspective of RW1 location and area to the
> south east.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 11 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 10:40

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID
(if applicable):

> RW2/MSD



DESCRIPTION: > Photo of tap from which RW2 and the MSD

> (matrix spike duplicate) were obtained. This residence is about
3/8-mile northwest of the Export Packaging site.

DATE: > 2/21/89

TIME: > 10:40

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

> High @25°F

PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID
(if applicable):

> RW2/MSD



DESCRIPTION: > Perspective of location RW2.

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 12 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 10:40

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

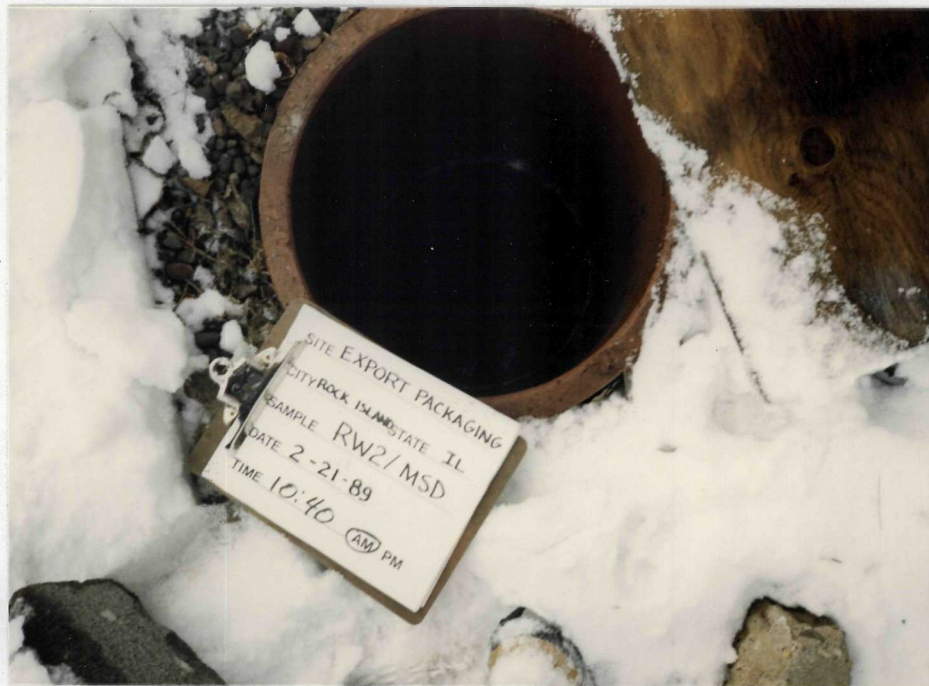
> High @ 25 F

PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID
(if applicable):

> RW2/MSD



DESCRIPTION: > photo of well casing/vent pipe which leads to
> well from which RW2 was obtained.

DATE: > 2/21/89

TIME: > 12:20

DIRECTION OF
PHOTOGRAPH:

> N/A

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

> High @ 25°F

PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID
(if applicable):

> RW3



DESCRIPTION: > Close-up of tap from which RW3 was collected.

>

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 13 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA

DATE: > Feb. 21, 1989

TIME: > 12:20

DIRECTION OF
PHOTOGRAPH:

> North

WEATHER

CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

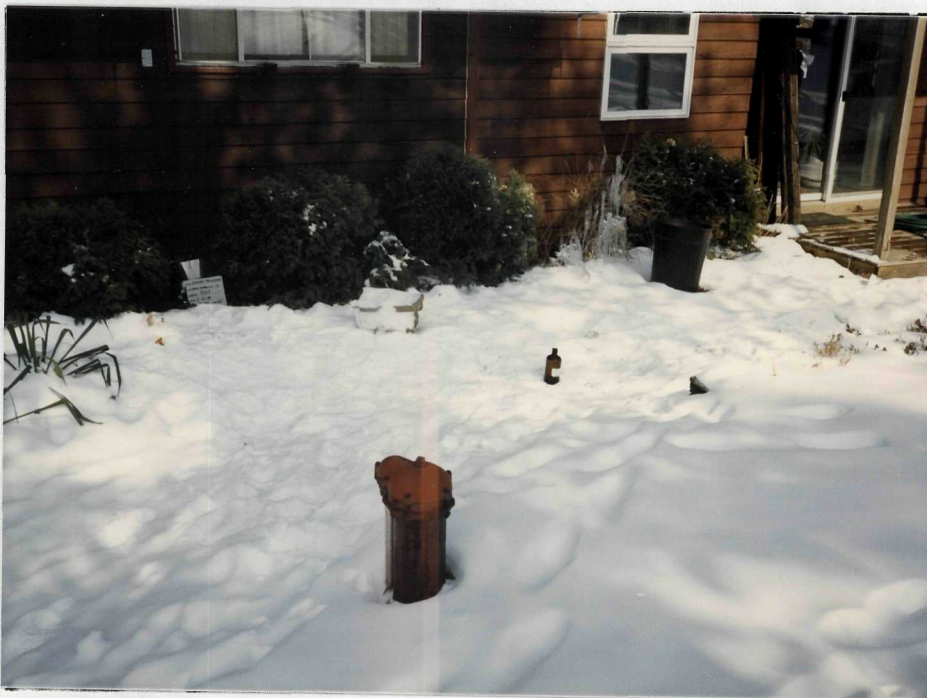
PHOTOGRAPHED BY:

> K. Sims

SAMPLE ID

(if applicable):

> RW3



DESCRIPTION: > well head of well from which RW3 was collected.

>

DATE: > 2/21

TIME: > 11:15

DIRECTION OF
PHOTOGRAPH:

> Southwest

WEATHER

CONDITIONS:

> Clear, calm,

> high @25°F

PHOTOGRAPHED BY:

> S. Senger

SAMPLE ID

(if applicable):

> N/A



DESCRIPTION: > Perspective of the Export Packaging site's Warehouse
> as seen from the Northeast corner of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 14 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA



DATE: > Feb. 21, 1989 TIME: > 11:15 DIRECTION OF PHOTOGRAPH: > South PHOTOGRAPHED BY: > J. Senger

WEATHER CONDITIONS: > Mostly Sunny, Calm, High @25 F SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Perspective of the area to the south and east of the site as seen from the northeast corner of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 15 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA



DATE: > Feb. 21, 1989 TIME: > 11:15 DIRECTION OF PHOTOGRAPH: > EAST PHOTOGRAPHED BY: > J. SENER

WEATHER CONDITIONS: > Mostly Sunny, Calm, High @25 F SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Perspective of the area east of the site as seen from the northeast corner of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 16 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA



DATE: > Feb. 21, 1989 TIME: > 11:15 DIRECTION OF PHOTOGRAPH: > North PHOTOGRAPHED BY: > S. Senger

WEATHER CONDITIONS: > Mostly Sunny, Calm, High @ 25 F

SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Perspective of the area to the north of the site as seen from the east border of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 17 OF 17

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL05728A

DATE: > Feb. 21, 1989

TIME: > 11:15

DIRECTION OF
PHOTOGRAPH:

> WEST

WEATHER
CONDITIONS:

> Mostly Sunny, Calm,

> High @25 F

PHOTOGRAPHED BY:

> J. SENGGER

SAMPLE ID

(if applicable):

> N/A



DESCRIPTION: > Photo of the cement loading ramp at the north side
> of the warehouse on-site as seen from the east end of the
site.

FIELD PHOTOGRAPHY LOG SHEET

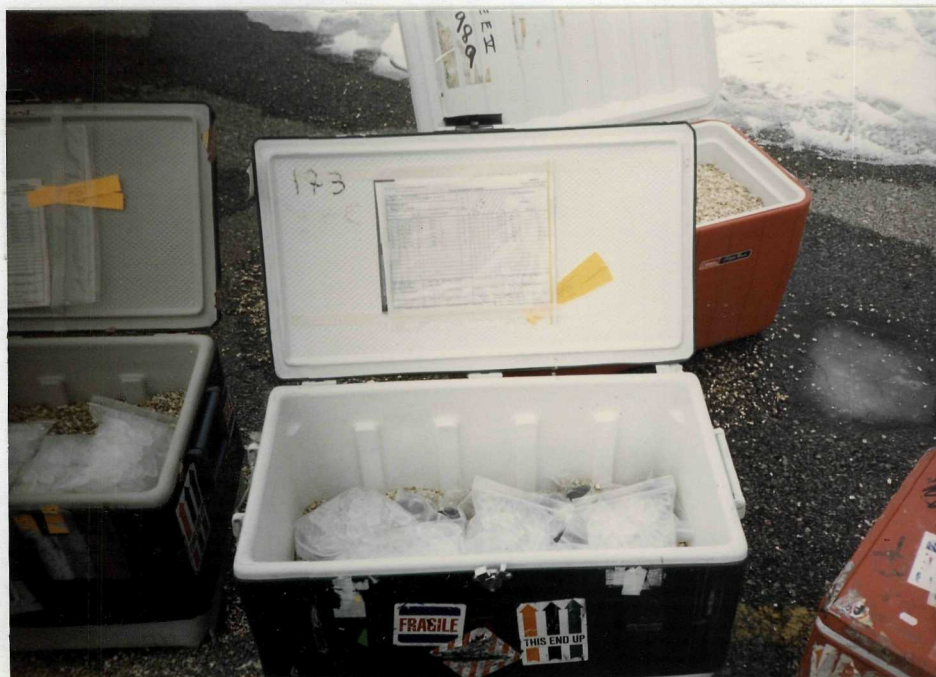
SITE NAME: EXPORT PACKAGING

PAGE 1 OF 3

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA



DATE: > Feb. 21, 1989 TIME: > 15:50 DIRECTION OF PHOTOGRAPH: > N/A PHOTOGRAPHED BY: > S. SENTER

WEATHER CONDITIONS: > Mostly Sunny, Calm, High @25 F SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Coolers with samples prepared to be packaged for shipping.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 2 OF 3

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA



DATE: > Feb. 21, 1989 TIME: > 15:55 DIRECTION OF PHOTOGRAPH: > N/A PHOTOGRAPHED BY: > S. SENER

WEATHER CONDITIONS: > Mostly Sunny, Calm, High @25 F SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Coolers with samples on ice, prepared to be packaged for shipment to CLP/CRL.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: EXPORT PACKAGING

PAGE 3 OF 3

U.S. EPA ID: ILD038409975

TDD: F05-8808-022

PAN: FIL0572SA



DATE: > Feb. 21, 1989 TIME: > 1600 DIRECTION OF PHOTOGRAPH: > N/A PHOTOGRAPHED BY: > S. SENGEL

WEATHER CONDITIONS: > Mostly Sunny, Calm, High @25 F SAMPLE ID (if applicable): > N/A

DESCRIPTION: > Coolers with all soil and residential well samples sealed and ready for shipment via Fed. Ex. to CRL and CLP laboratories.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ADDENDUM A

**ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS**

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A
Contract Laboratory Program
Target Analyte List
Inorganic Quantitation Limits

COMPOUND	PROCEDURE	SOIL WATER	SEDIMENT SLUDGE
Aluminum	ICP	200 ug/L	40 mg/Kg
Antimony	Furnace	60	2.4
Arsenic	Furnace	10	2
Barium	ICP	200	40
Beryllium	ICP	5	1
Cadmium	ICP	5	1
Calcium	ICP	5000	1000
Chromium	ICP	10	2
Cobalt	ICP	50	10
Copper	ICP	25	5
Iron	Icp	100	20
Lead	Furnace	5	1
Magnesium	ICP	5000	1000
Manganese	ICP	15	3
Mercury	Cold Vapor	0.2	0.008
Nickel	ICP	40	8
Potassium	ICP	5000	1000
Selenium	Furnace	5	1
Silver	ICP	10	2
Sodium	ICP	5000	1000
Thallium	Furnace	10	2
Vanadium	ICP	50	10
Zinc	ICP	20	4
Cyanide	Color	10	2

ADDENDUM B
CENTRAL REGIONAL LABORATORY
DETECTION LIMITS

TABLE B
CENTRAL REGIONAL LABORATORY
VOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	75-27-4	1.5
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	10
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	10
Dibromochloromethane	124-48-1	1.5
1,1-dichloroethane	75-34-3	1.5
1,2-dichloroethane	107-06-2	1.5
1,1-dichloroethene	75-35-4	1.5
Total-1,2-dichloroethene	540-59-0	1.5
1,2-dichloropropane	78-87-5	1.5
cis-1,3-dichloropropene	10061-01-5	2
trans-1,3-dichloropropene	10061-02-6	1
Ethyl benzene	100-41-4	1.5
Methylene chloride*	75-09-2	1
1,1,2,2-tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene*	108-88-3	1.5
1,1,1-trichloroethane	71-55-6	1.5
1,1,2-trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	10
Acrolein	107-02-8	100
Acetone*	67-64-1	75
Acrylonitrile	107-13-1	50
Carbon disulfide	75-15-0	3
2-butanone	78-93-3	(50)
Vinyl acetate	108-05-4	15
4-Methyl-2-Pentanone	108-10-1	(3)
2-Hexanone	519-78-6	(50)
Styrene	100-42-5	1
m-xylene	108-38-3	2
o-xylene**	95-47-6	
p-xylene**	106-42-3	2.5**
Total Xylene	1330-02-7	

* Common Laboratory Solvents.

Blank Limit is 5X Method Detection Limit.

() Values in parentheses are estimates.

Actual values are being determined at this time.

** The o-xylene and p-xylene are reported as a total of the two.

TABLE B (cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK LIMIT
Aniline	62-53-3	1.5 ug/L	3 ug/L
Bis(2-chloroethyl)ether	111-44-4	1.5	3
Phenol	108-95-2	2	4
2-Chlorophenol	95-57-8	2	4
1,3-Dichlorobenzene	541-73-1	2	4
1,4-Dichlorobenzene	106-46-7	2	4
1,2-Dichlorobenzene	95-50-1	2.5	5
Benzyl alcohol	100-51-6	2	4
Bis(2-chloroisopropyl) ether	39638-32-9	2.5	5
2-Methylphenol	95-48-7	1	2
Hexachloroethane	67-72-1	2	4
N-nitrosodipropylamine	621-64-7	1.5	3
Nitrobenzene	98-95-3	2.5	5
4-Methylphenol	106-44-5	1	2
Isophorone	78-59-1	2.5	5
2-Nitrophenol	88-75-5	2	4
2,4-Dimethylphenol	105-67-9	2	4
Bis(2-chloroethoxy)methane	111-91-1	2.5	5
2,4-Dichlorophenol	120-83-2	2	4
1,2,4-Trichlorobenzene	120-82-1	2	4
Naphthalene	91-20-3	2	4
4-Chloroaniline	106-47-8	2	4
Hexachlorobutadiene	87-68-3	2.5	5
Benzoic acid	65-85-0	(30)	(60)
2-Methylnapthalene	91-57-6	2	4
4-Chloro-3-methylphenol	59-50-7	1.5	3
Hexachlorocyclopentadiene	77-47-4	2	4
2,4,6-Trichlorophenol	88-06-2	1.5	3
2,4,5-Trichlorophenol	95-95-4	1.5	3
2-Chloronapthalene	91-58-7	1.5	3
Acenaphthylene	208-96-8	1.5	3
Dimethyl phthalate	131-11-3	1.5	3
2,6-Dinitrotoluene	606-20-2	1	2
Acenaphthene	83-32-9	1.5	3
3-Nitroaniline	99-09-2	2.5	5
Dibenzofuran	132-64-9	1	2
2,4-Dinitrophenol	51-28-5	(15)	(30)
2,4-Dinitrotoluene	121-14-2	1	2
cont.			

TABLE B (Cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK (a) LIMIT
Fluorene	86-73-7	1 ug/L	2 ug/L
4-Nitrophenol	100-02-7	1.5	3
4-Chlorophenyl phenyl ether	7005-72-3	1	2
Diethylphthalate	84-66-2	1	2
4,6-dinitro-2-methylphenol	534-52-1	(15)	(30)
1,2-Diphenylhydrazine	122-66-7	1	2
n-Nitrosodiphenylamine *	86-30-6		
Diphenylamine *	122-39-4	1.5	3
4-Nitroaniline	100-01-6	3	6
4-Bromophenyl-phenylether	101-55-3	1.5	3
Hexachlorobenzene	118-74-1	1.5	3
Pentachlorophenol	87-86-5	2	4
Phenanthrene	85-01-8	1	2
Anthracene	120-12-7	2.5	5
Di-n-butylphthalate	84-74-2	2	4
Fluoranthene	206-44-0	1.5	3
Pyrene	129-00-0	1.5	3
Butylbenzylphthalate	85-68-7	3.5	7
Chrysene **	218-01-9		
Benzo(a)anthracene **	56-55-3	1.5	3
bis(2-Ethylhexyl)phthalate	117-81-7	1	2
Di-n-octyl phthalate	117-84-0	1.5	3
Benzo(b)fluoranthene ***	205-99-2		
Benzo(k)fluoranthene ***	207-08-9	1.5	3
Benzo(a)pyrene	50-32-8	2	4
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	7
Dibenzo(a,h)anthracene	53-70-3	2.5	5
Benzo(g,h,i)perylene	191-24-2	4	8
2-Nitroaniline	88-74-4	1	2

* These two parameters are reported as a total.

** These two parameters are reported as a total.

*** These two parameters are reported as a total.

(a) If the blank limit is exceeded, the sample is reextracted and rerun.

() Values in parentheses are estimates.

The actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE B (Cont.)
CRL
PESTICIDE AND PCB DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aldrin	309-00-2	0.005 ug/L
alpha BHC	319-84-6	(0.010)
beta BHC	319-85-7	(0.005)
delta BHC	319-86-8	(0.005)
gamma BHC (Lindane)	58-89-9	0.005
Chlordane	57-74-8	(0.020)
4,4'-DDD	72-54-8	(0.020)
4,4'-DDE	72-55-9	(0.005)
4,4'-DDT	50-29-3	0.020
Dieldrin	60-57-1	0.010
Endosulfan I	959-98-8	0.010
Endosulfan II	33213-65-9	0.010
Endosulfan sulfate	1031-07-8	(0.10)
Endrin	72-20-8	0.010
Endrin aldehyde	7421-93-4	(0.030)
Endrin ketone	53494-70-5	(0.030)
Heptachlor	76-44-8	0.030
Heptachlor epoxide	1024-57-3	0.005
4,4'-Methoxychlor	72-43-5	0.020
Toxaphene	8001-35-2	(0.25)
PCB-1242	53469-21-9	(0.10)
PCB-1248	12672-29-6	(0.10)
PCB-1254	11097-69-1	(0.10)
PCB-1260	11096-82-5	(0.10)

() Values in parentheses are estimates.
Actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE B (Cont.)
CRL
INORGANIC DETECTION LIMITS

COMPOUND	PROCEDURE	DETECTION LIMITS	RANGE	UNITS
Aluminum	ICP	100	80 to 1,000,000	ug/L
Antimony	Furnace	2	2 to 30	ug/L
Arsenic	Furnace	2	2 to 30	ug/L
Barium	ICP	50	6 to 20,000	ug/L
Beryllium	ICP	5	1 to 20,000	ug/L
Boron	ICP	80	80 to 20,000	ug/L
Cadmium	ICP	10	10 to 20,000	ug/L
Cadmium	Furnace	0.2	0.2 to 2	ug/L
calcium	ICP	1000	0.5 to 1,000	mg/L
Chromium	ICP	10	8 to 20,000	ug/L
Cobalt	ICP	10	6 to 20,000	ug/L
Copper	ICP	10	6 to 20,000	ug/L
iron	ICP	100	80 to 1,000,000	ug/L
Lead	Furnace	2	2 to 30	ug/L
Lead	ICP	70	70 to 20,000	ug/L
Lithium	ICP	10	10 to 20,000	ug/L
Magnesium	ICP	1000	0.1 to 200	mg/L
Maganese	ICP	10	5 to 20,000	ug/L
Mercury	Cold vapor	0.2	0.1 to 2	ug/L
Molybdenum	ICP	15	15 to 20,000	ug/L
Nickel	ICP	20	15 to 20,000	ug/L
Potassium	ICP	2000	5 to 1,000	mg/L
Selenium	Furnace	2	2 to 30	ug/L
Silver	ICP	5	6 to 10,000	ug/L
Sodium	ICP	1000	1 to 1,000	mg/L
Strontium	ICP	10	10 to 20,000	ug/L
Sulfide	Titration	1	< 1	mg/L
Sulfide	Color	0.05	< 1	mg/L
Thallium	Furnace	2	2 to 30	ug/L
Titanium	ICP	25	25 TO 20,000	UG/L
Tin	ICP	40	40 to 20,000	ug/L
Vanadium	ICP	10	5 to 20,000	ug/L
Yttrium	ICP	5	5 to 20,000	ug/L
Zinc	ICP	20	40 to 1,000,000	ug/L
Cyanide	AA	5.0	8 to 200	ug/L

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services for related CAS #.

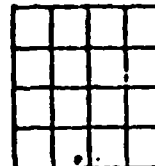
APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-29-77

10. Property owner Charles W. Brandt Well No. 1
Address 700 Fourth St. West Moline
Driller Elwin H. Kinslow License No. 102-001658
11. Permit No. 68529 Date 10/25/77
12. Water from ROCK 13. County ROCK ISLAND
at depth 210 to 244 ft. Sec. 19
14. Screen: Diam. _____ in. Twp. 17N
Length: _____ ft. Slot _____ Rge. 2W
Elev. _____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	standard	+2	90
4	1 1/2"	85	202

SHOW
LOCATION IN
SECTION PLAT
100' SL 2525' EL
SW/c
(permit)

16. Size Hole below casing: _____ in.
17. Static level 20 ft. below casing top which is +2 ft.
above ground level. Pumping level 44 ft. when pumping at 12
gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
DIRT	5	20
SHALE + ROCK	20	95
ROCK + SHALE	95	195
ROCK	195	244

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Moline Drilling Co DATE 3/14/78

COUNTY No 21515

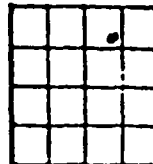
ROCK ISLAND

19-17N-2W

REQUESTED AND MAIL ORIGINAL TO STATE
CONSUMER HEALTH PROTECTION, 535 WEST
61. DO NOT DETACH GEOLOGICAL/WATER
E PROPER LOCAT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 5-2-78
10. Property owner Clyde Moran Well No. 7813
Address 3702 - 47th Ave Rock Island, IL
Driller Hoyle Well & Pump License No. 102-178
11. Permit No. 74570 Date 12 May 1978
12. Water from Broken Limestone 13. County Rock Island
at depth 49 to 100 ft. Sec. 20
14. Screen: Diam. _____ in. Twp. 17N
Length: _____ ft. Slot _____ Rge. 2W
Elev. _____



15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
6		0	49
5	Slotted Plastic	48	100

SHOW
LOCATION IN
SECTION PLAT
SE NW NE
(permit)

16. Size Hole below casing: 5 in.
17. Static level 35 ft. below casing top which is 1 ft.
above ground level. Pumping level 35 ft. when pumping at 30
gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Brown Dirt & Red Clay	19	19
Sand & Gravel	4	23
Gray Shale	11	34
Light Shale	4	38
Limestone & Light Shale	62	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Tom Timmerman DATE 23 May 1978

COUNTY No. 21516

ROCK ISLAND

20-17N-2W

INSTRUCTIONS TO DRILLERS

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 634, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62708. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. in. Depth ft.
- c. Drilled ☒ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings	0	84 1/2

2. Distance to Nearest:

Building 40 Ft. Seepage Tile Field ☐
Cess Pool ☐ Sewer (non Cast Iron) ☐
Privy ☐ Sewer (Cast Iron) ☐
Septic Tank 75 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed Aug 20, 1974

5. Permanent Pump Installed? Yes ☐ No ☐

Manufacturer Type

Capacity gpm. Depth of setting ft.

6. Well Top Sealed? Yes ☒ No ☐

7. Pitless Adaptor Installed? Yes ☐ No ☐

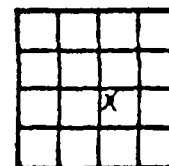
8. Well Disinfected? Yes ☒ No ☐

9. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Frank Pennison Well No. 718
Address RR 2 Alton, Ill.
Driller Bob Adolphson License No. 102-119
11. Permit No. 31978 Date Aug 8, 1974
12. Water from Niagra 13. County Rock Island
at depth 185 to 219 ft. Sec. 28
14. Screen: Diam. in. Twp. 17N
Length: ft. Slot Rge. 2W
Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>Steel 19.45</u>	<u>0</u>	<u>84 1/2</u>

SHOW LOCATION IN SECTION PLAT
300'S 200'E NWK
NW NW SE

16. Size Hole below casing: 6 in.
17. Static level 70 ft. below casing top which is 1 ft. above ground level. Pumping level 100 ft. when pumping at 18 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Yellow Clay</u>	<u>11</u>	<u>11</u>
<u>Sand</u>	<u>3</u>	<u>14</u>
<u>sand & strips of Blue Clay</u>	<u>26</u>	<u>40</u>
<u>Shale</u>	<u>21</u>	<u>61</u>
<u>Sandrock</u>	<u>9</u>	<u>70</u>
<u>Grey lime</u>	<u>22</u>	<u>92</u>
<u>Brown lime</u>	<u>59</u>	<u>151</u>
<u>Grey & Brown lime</u>	<u>34</u>	<u>185</u>
<u>Niagra</u>	<u>34</u>	<u>219</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Bob Adolphson DATE Aug 23, 1974

INSTRUCTIONS TO DRILLERS

White Copy -
Ill. Dep. of P. : Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material . Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. in. Depth ft.
- c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
cutting	0	103

2. Distance to Nearest:

Building 100 Ft. Seepage Tile Field
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast Iron)
Septic Tank 25 Barnyard
Leaching Pit Manure Pile

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed May 7, 19715. Permanent Pump Installed? Yes ☐ No ☐

Manufacturer Type
Capacity gpm. Depth of setting ft.

6. Well Top Sealed? Yes ☒ No ☐7. Pitless Adaptor Installed? Yes ☐ No ☐8. Well Disinfected? Yes ☒ No ☐9. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Harry Johannes Well No. 454
Address 567 202 Ave. Rock Island Ill.
Driller Bob Adolphson License No. 92-148
11. Permit No. 12511 Date May 5, 1971
12. Water from Niagara 13. County Rock Island
Formation
at depth 195 to 220 ft. Sec. 285c
14. Screen: Diam. in. Twp. 17N
Length: ft. Slot Rge. 2W
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (FT.)	To (FT.)
6	Steel 19.45	0	103

SHOW
LOCATION IN
SECTION PLAT
150'N 200'W
SE 1/4 NW

16. Size Hole below casing: 6 in.
17. Static level 20 ft. below casing top which is 2 ft.
above ground level. Pumping level 80 ft. when pumping at 10
gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sandy Blue Clay	80	80
Shale	10	90
Brown Lime	60	150
Grey Lime - SFT	28	178
Grey Lime - Hard	17	195
Niagara - Hard	9	204
Niagara - SFT	16	220

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Bob Adolphson DATE May 18, 1971

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION. REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. in. Depth ft.
- c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Drill cuttings & heavy bentonite		
		slurry

2. Distance to Nearest:

Building 330 Ft. Seepage Tile Field 180'
Cess Pool Sewer (non Cast iron)
Privy Sewer (Cast iron)
Septic Tank 200' Barnyard
Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed 6/30/83

5. Permanent Pump Installed? Yes ☒ Date 7/22/83 No ☐
Manufacturer Flint & Walting Sub. Location in well
Capacity 10 gpm. Depth of Setting 160 Ft.

6. Well Top Sealed? Yes ☒ No ☐ Type Monitor watertight

7. Pitless Adapter Installed? Yes ☒ No ☐ Cap ☐
Manufacturer Merrill Mfg. Model Number SPK-5" x 5' bury
How attached to casing? 11 Bolt

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☒ No ☐

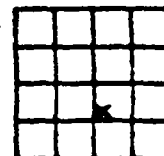
10. Pressure Tank Size gal. Type #203 Well-X-Trol
Location in basement

11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Melvin Blager Well No.
Address 4701 85th Avenue W, Milan, IL 61264
Driller Mark D. Latta License No. 102-002763
11. Permit No. 107219 Date 5/18/83
12. Water from silurian 13. County Rock Island
Formation
at depth 342 to 362 ft. Sec. 29N
14. Screen: Diam. in. Twp. 17N
Length: ft. Slot Rge. 2W
Elev.



SHOW
LOCATION IN
SECTION PLAT
SW NW SE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5"</u>	<u>PVC SDR-21 Class</u>		
	<u>800 well casing</u>	<u>+1'</u>	<u>141'</u>

16. Size Hole below casing: 4 3/4 in.

17. Static level 135 ft. below casing top which is +1' ft.
above ground level. Pumping level 230 ft. when pumping at 100
gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Yellow Clay</u>	<u>32'</u>	<u>32'</u>
<u>Gray Clay</u>	<u>29'</u>	<u>61'</u>
<u>Streaks of sand - gray clay</u>	<u>40'</u>	<u>101'</u>
<u>Gray sticky stuff</u>	<u>27'</u>	<u>128'</u>
<u>Gravel - green shale</u>	<u>10'</u>	<u>138'</u>
<u>Gray rock</u>	<u>132'</u>	<u>270'</u>
<u>Silurian</u>	<u>92'</u>	<u>362'</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Mark D. Latta DATE 7/25/83
Mark D. Latta

WELL LOG 5

INSTRUCTIONS TO DRILLERS

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED. MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dig ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. in. Depth ft.
- c. Drilled ☒ Finished in Drift In Rock ☒
Tabular Gravel Packed
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings	0	88

2. Distance to Nearest:

Building 30 Ft. Seepage Tile Field
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast Iron)
Septic Tank 60 Barnyard
Leaching Pit Manure Pile

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed Sept. 14, 1971

5. Permanent Pump Installed? Yes ☐ No ☐
Manufacturer Type
Capacity gpm. Depth of setting ft.

6. Well Top Sealed? Yes ☒ No ☐

7. Pitless Adaptor Installed? Yes ☐ No ☐

8. Well Disinfected? Yes ☒ No ☐

9. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Mrs. Ida Schultz Well No. 493
Address R.R. Milan, Ill.
Driller Bob Adolphson License No. 93-140
11. Permit No. 14226 Date August 30, 1971
12. Water from Niagara Formation
at depth 234 to 255 ft. Sec. 29.80
14. Screen: Diam. in. Twp. 17N
Length: ft. Slot Rge. 2W
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	Steel 19.45	0	88
4	Steel 11.00	160	234

SHOW
LOCATION IN
SECTION PLAT

80'S 80'W
NEc SW NW SW

16. Size Hole below casing: 4 in.
17. Static level 80 ft. below casing top which is 14 ft.
above ground level. Pumping level 160 ft. when pumping at 8
gpm for 34 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	77	77
Grey Lime	33	110
Brown Lime	59	169
Grey Lime	11	180
Grey Lime & Shale streaks	7	187
Grey Lime	4	203
Lime & Shale	30	233
Niagara Shale	22	255

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Bob Adolphson DATE Oct. 24, 1971